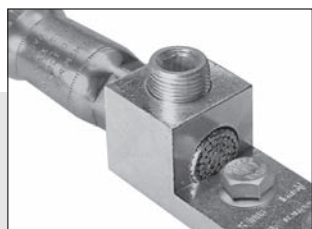




CONNECTORS FROM THE GREAVES ADAPTER ZONE

When the cable doesn't fit, you need a solution fast...

What can you do when dealing with new or relocated equipment, spec changes, and/or mismatched parts and cables? In the Greaves **Adapter Zone** you'll find numerous types of adapters, splices, reducers and lugs in many sizes to help you meet a wide variety of applications and challenges such as:



Terminate – When you need to terminate a cable into a lug where it does not fit, or is not of the appropriate material or stranding.

- Terminate a copper Class B cable into a mechanical lug, but the cable is oversized and too large to fit
- Terminate an aluminum cable into a copper/bronze lug
- Terminate a copper flex/DLO cable into a mechanical lug
- Terminate a copper cable into a lug which needs a larger wire



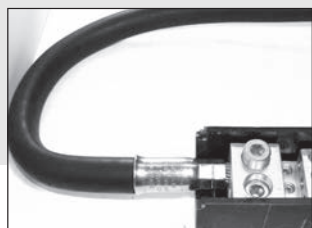
Splice/reduce – When you need to splice/reduce cables that are different from each other.

- Splice a copper wire to a smaller copper wire
- If one or both wires are aluminum
- Splice aluminum to a smaller copper wire
- Transition from copper flex/DLO to copper Class B/THHN cable
- Transition from aluminum wire to a copper flex cable



Multiple cables – When you need to fit multiple cables into closely-spaced wire-ports on a circuit breaker.

- With copper cable, adapters often will allow spacing close enough
- Use adapters with offset pins to allow the wires to be more closely spaced, so they will fit into the wire-ports.
- Splice smaller jumpers onto the runs and locate the splices so the smaller jumpers can be bunched together to fit into the wire-ports.



Limited space in switchgear cabinet – In compact switchgear cabinets, often there is not enough space for a bend radius in Class B cable, so flex/DLO is used for the tighter bend capability. Then, an adapter is needed to terminate the flex/DLO into the lug.

Numerous Greaves connectors can help you:

- Adapter Series – PT-FX, PT-R, PT, PTA, PTO
- Splice Series – CRK, CRA, ACK, AC-R, PBS, ABS, UPP

Greaves can also design and fabricate solutions for special situations.

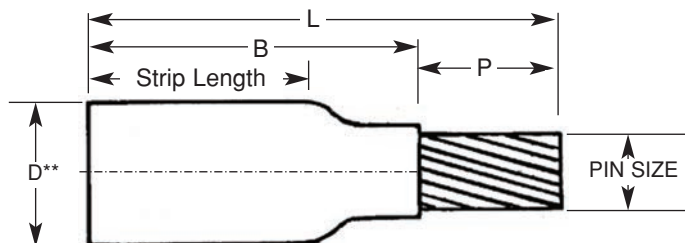
COMPRESSION ReduceR™

For copper cable
Class B
600V*
105°C



STEP-DOWN ADAPTERS

All-copper compression adapters
For reliable termination of Class B copper conductor
Use where oversized cable is used to reduce voltage drop on long runs
Use where neutrals are upsized for power quality
Rated for full ampacity of incoming conductor
Narrow profile often allows use in place of offset adapters on multi-wire terminals
Fits into mechanical set-screw type connectors
Fabricated of wrought copper with pin of Class B stranded copper conductor
Insulating covers are provided



PT-R SERIES

NAED NUMBER	CATALOG NUMBER	CABLE SIZE	PIN SIZE	DIMENSIONS (IN)				CABLE STRIP LENGTH	U-TYPE DIE*			EST. SHIPPING WEIGHT (lbs) UNIT	
				B	P	L	D**		COLOR CODE	DIE INDEX	# CRIMPS		
54102	PT10R2	1/0 AWG	2	1.75	1.20	2.5	0.52	1 1/8	PINK	12/348	1	0.08	EA
54202	PT20R2	2/0 AWG	2	2.0	1.20	2.7	0.56	1 1/4	BLACK	13	1	0.10	EA
54210	PT20R10	2/0 AWG	1/0	2.0	1.16	2.7	0.56	1 1/4	BLACK	13	1	0.11	EA
54320	PT30R20	3/0 AWG	2/0	2.1	1.24	3.0	0.62	1 1/4	ORANGE	14	1	0.13	EA
54420	PT40R20	4/0 AWG	2/0	2.2	1.24	3.2	0.69	1 1/4	PURPLE	15	2	0.13	EA
54430	PT40R30	4/0 AWG	3/0	2.2	1.35	3.2	0.69	1 1/4	PURPLE	15	2	0.16	EA
54254	PT250R40	250 kcmil	4/0	2.2	1.36	3.2	0.75	1 1/4	YELLOW	16	2	0.24	EA
54305	PT300R250	300 kcmil	250 kcmil	2.2	1.36	3.3	0.81	1 1/4	WHITE	17/298	2	0.25	EA
54355	PT350R250	350 kcmil	250 kcmil	2.3	1.36	3.5	0.88	1 1/4	RED	18/324	2	0.26	EA
54353	PT350R300	350 kcmil	300 kcmil	2.3	1.47	3.5	0.88	1 1/4	RED	18/324	2	0.32	EA
54435	PT400R350	400 kcmil	350 kcmil	2.3	1.69	3.7	0.95	1 1/4	BLUE	19/470	2	0.38	EA
54535	PT500R350	500 kcmil	350 kcmil	2.4	1.69	3.9	1.06	1 3/8	BLUE	19/470	2	0.40	EA
54540	PT500R400	500 kcmil	400 kcmil	2.5	1.75	4.0	1.06	1 3/8	BLUE	19/470	2	0.44	EA
54650	PT600R500	600 kcmil	500 kcmil	2.6	1.80	4.1	1.19	1 1/2	GREEN	22/472	2	0.64	EA
54750	PT750R500	750 kcmil	500 kcmil	3.0	1.80	4.5	1.30	1 5/8	BLACK	24/473	2	0.65	EA
54760	PT750R600	750 kcmil	600 kcmil	3.0	2.00	4.7	1.30	1 5/8	BLACK	24/473	2	0.89	EA
54107	PT1000R750	1000 kcmil	750 kcmil	3.0	2.06	4.8	1.50	1 5/8	YELLOW	936	2	1.09	EA



For size combinations not shown, consult factory.
Custom pin lengths available. Consult factory.
For solid pin, consult factory.
For tin plating add suffix "P" to CATALOG NUMBER.

For aluminum cable, use PT, PTA, PTO Series. See page 39.
*Installation tool: Greenlee HKL 1232.
**Add 1/8" for insulating cover.



COMPRESSION

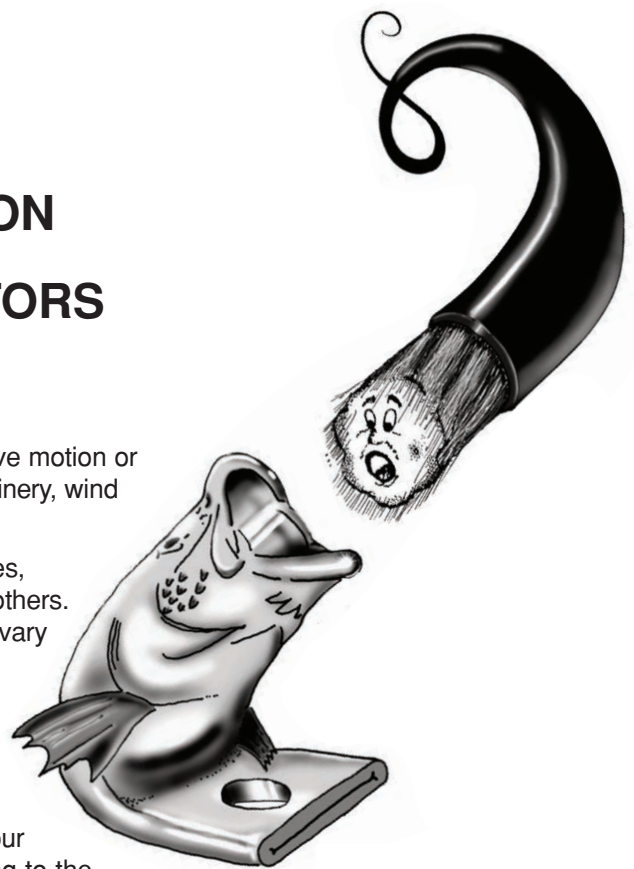
Shoo-in™ FLEX-CABLE CONNECTORS REFERENCE INFORMATION SIZING GUIDE

High-strand flexible cables are often utilized in environments that involve motion or vibration. Applications include locomotive, mining, marine, welding machinery, wind power turbines, temporary power generators, and transformers.

High-strand flexible cables are available in a variety of classes and styles, such as welding cable, rope cable, diesel-locomotive cable (DLO) and others. Each style has a different nominal cable/conductor diameter which can vary from manufacturer to manufacturer, from lot to lot, and even within a manufacturing lot.

This chart can assist in selection of connectors for use on high-strand, flexible cables. Locate your cable across the top, move down to your cable size, and move to the lefthand column for your "FX GUIDE." Then for a lug or splice series, use your FX GUIDE to select your specific lug or splice. An alternative is to select your FX GUIDE according to the conductor O.D. information on the chart; when measuring your cable diameter, include only the bundle of conductors (not the jacket). This will help select an FX lug or splice with appropriate barrel size and flare.

For example, 535kcmil DLO cable (1325/24 stranding) indicates an FX GUIDE of "535FX"; for a long-barrel 2-hole NEMA lug, select Cat. No. L535NFX.



**SIZING GUIDE for FX COMPRESSION LUGS for DLO and FLEX CABLE
CABLE DIMENSIONS – REFERENCE INFORMATION**

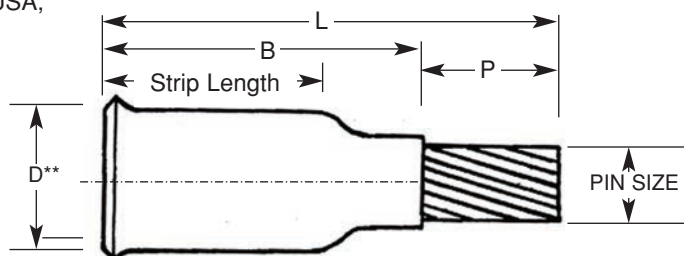
FX CAT. NO. GUIDE	CLASS I-MODIFIED (DIESEL-LOCOMOTIVE CABLE)			CLASS H (ROPE)		CLASS M (WELD)		REFERENCE CLASS B (COMM'L)	
	APPROX (AWG)KCMIL	STRANDS (#/AWG)	COND. O.D.	AWG	O.D.	AWG	O.D.	AWG	O.D.
25FX	(6)26	61/24	.207	#7	.188	#7	.196	#6	.184
42FX	(4)42	91/24-105/24	.263	#5	.237	#5	.240	#4	.232
50FX	(3)50.5	125/24	.288	#4	.266	#4	.269	#2	.292
60FX	(2)60.6	150/24	.313	#2	.336	#2	.337	#1	.332
90FX	(1)90.9	225/24	.380	#1	.378	#1	.376	1/0	.373
111FX	(1/0)111.1	275/24	.409	1/0	.424	1/0	.423	2/0	.418
131FX	(2/0)131.3	325/24	.449	2/0	.477	--	--	3/0	.470
181FX	(3/0)181.8	450/24	.540	3/0	.536	2/0	.508	4/0	.528
222FX	(4/0)222.2	550/24	.573	4/0	.602	3/0	.576	250	.575
250FX	250	637/24	.682	250	.653	250	.713	350	.681
262FX	262.6	650/24	.620	250	.653	4/0	.645	300	.630
313FX	313.1	775/24	.688	300	.716	250	.713	350	.681
373FX	373.7	925/24	.774	350	.773	300	.768	500	.814
444FX	444.4	1100/24	.840	400	.909	350	.825	600	.893
535FX	535.3	1325/24	.908	500	.923	400	.901	700	.964
646FX	646.4	1600/24	1.034	700	1.106	600	1.084	800	1.031
777FX	777.7	1925/24	1.123	800	1.180	700	1.183	1000	1.152
929FX	929.2	2299/24	1.230	1000	1.320	900	1.331	1250	1.289
	1111.1	2745/24	1.360	1250	1.477	1000	1.404	1500	1.412

COMPRESSION Shoo-pin™

For copper cable
600V
105°C

FLEX-CABLE COPPER COMPRESSION ADAPTERS

All-copper compression adapters
For reliable termination of highly stranded flexible copper cable
Used in locomotive, mining, marine, wind power, and machinery applications
Fits into mechanical set-screw type connectors in panels, transformers, machinery
Recommended for use on flex/extra-flex high-strand wire with PBS, USA, USAD Series insulated connector
Rated for full ampacity of incoming conductor
Features flared Shoo-in™ barrel-opening for easy cable insertion
Fabricated of wrought copper with pin of Class B stranded copper conductor
Insulating covers are provided



PT-FX SERIES

NAED NUMBER	CATALOG NUMBER	FLEX CABLE OR CODE AWG CONDUCTOR	PIN SIZE	NOMINAL DIMENSIONS (IN)				CABLE STRIP LENGTH	U-TYPE DIE*			EST. SHIPPING	
		DLO CABLE FLEX CABLE		B	P	L	D**		COLOR	INDEX	# CRIMPS	WEIGHT (lbs)	UNIT
54236	PT25FX6†	61/24 (#6)	#6 AWG	1.5	1.1	2.40	0.30	3/4	BLUE	7/374	1	0.05	EA
55424	PT42FX4	91/24-105/24 (#4)	#4 AWG	1.5	1.1	2.45	0.42	7/8	GRAY	8/346	1	0.06	EA
55602	PT60FX2	125/24-150/24 (#2)	#2 AWG	1.6	1.1	2.45	0.47	1	BROWN	10	1	0.08	EA
55901	PT90FX1	175/24-225/24 (#1)	#1 AWG	1.7	1.1	2.45	0.52	1	GREEN	11/375	1	0.10	EA
55111	PT111FX10	275/24 (1/0)	1/0 AWG	1.8	1.1	2.87	0.56	1 1/8	PINK	12/348	1	0.10	EA
55131	PT131FX20	325/24 (2/0)	2/0 AWG	2.1	1.2	2.97	0.62	1 1/4	BLACK	13	1	0.13	EA
55181	PT181FX30	450/24 (3/0)	3/0 AWG	2.2	1.3	3.10	0.69	1 1/4	ORANGE	14	1	0.16	EA
55222	PT222FX40	550/24 (4/0)	4/0 AWG	2.3	1.3	3.30	0.75	1 1/4	PURPLE	15	1	0.22	EA



NAED NUMBER	CATALOG NUMBER	FLEX CABLE	PIN SIZE	DIMENSIONS (IN)				CABLE STRIP LENGTH	U-TYPE DIE*			EST. SHIPPING	
				B	P	L	D**		COLOR	INDEX	# CRIMPS	WEIGHT (lbs)	UNIT
55250	PT250FX250	250 kcmil FLEX CLASS G 259 CLASS H 427	250 kcmil	2.3	1.40	3.40	0.75	1 3/8	YELLOW	16	2	0.26	EA
55262	PT262FX250	262.6 kcmil FLEX 250 FLEX CLASS I, K, M	250 kcmil	2.3	1.40	3.50	0.81	1 3/8	WHITE	17/298	2	0.26	EA
55313	PT313FX350	313.1 kcmil (775/24) (300 kcmil NOM)	350 kcmil	2.3	1.50	3.65	0.88	1 3/8	RED	18/324	2	0.38	EA
PT373	PT373FX350	373.7 kcmil (925/24) (350 kcmil NOM)	350 kcmil	2.7	1.50	3.95	1.06	1 3/8	BLUE	19/470	2	0.41	EA
55444	PT444FX500	444.4 kcmil (1100/24) (450 kcmil NOM)	500 kcmil	2.8	1.75	4.30	1.19	1 1/2	BROWN	20/299	2	0.65	EA
55535	PT535FX500	535.3 kcmil (1325/24) (500 kcmil NOM)	500 kcmil	3.1	1.75	4.40	1.24	1 1/2	GREEN	22/472	2	0.66	EA
55646	PT646FX600	646 kcmil (1600/24) (600 kcmil NOM)	600 kcmil	3.3	1.90	4.70	1.32	1 3/4	BLACK	24/473	2	0.83	EA
55777	PT777FX750	777.7 kcmil (1925/24) (750 kcmil NOM)	750 kcmil	3.3	2.01	5.00	1.50	2	YELLOW	936	2	1.21	EA



Custom pin lengths and diameters available. Consult factory.
For DLO sizes 929.2, 1111.1 and larger, consult factory for price and delivery.
For solid pin, consult factory.
For tin plating add suffix "P" to catalog number.

* Installation tool: Greenlee HKL 1232.
** Add 1/8" for insulating cover.

† Size not CSA.

For aluminum cable, see PT, PTA, PTO Series. See page 39.



COMPRESSION

REDUCING ADAPTERS

Versatile adapters fit into copper compression splice or lug to reduce barrel size

Install with compression die appropriate for barrel size

High conductivity copper, tin-plated

Some sizes are corrugated, some smooth with open seam

CRA SERIES

NAED NUMBER	CATALOG NUMBER	REDUCES SIZE		LENGTH	U-TYPE DIE		
		FROM	TO		COLOR	INDEX	
41661	CRA 6-10	#6	#10	1½	BLUE	7/374	
41626	CRA 2-6	#2	#6		BROWN	10	
41616	CRA 10-6	1/0	#6	1 ⁵ / ₁₆	PINK	12/348	
41614	CRA 10-4		#4				
41627	CRA 20-1	2/0	#1	1¾	BLACK	13	
41628	CRA 20-10	2/0	1/0				
41684	CRA 30-4	4/0	#4	1¾	PURPLE	15	
41681	CRA 30-10		3/0				1/0
41682	CRA 30-20		2/0				1½
41646	CRA 40-6		#6				
41644	CRA 40-4		#4				
41645	CRA 40-2		#2				
41640	CRA 40-1	#1	2/0	YELLOW	16		
41641	CRA 40-10	1/0					
41642	CRA 40-20	2/0					
41643	CRA 40-30	3/0					
41625	CRA 250-2	#2					
41620	CRA 250-1	#1					
41621	CRA 250-10	250	1/0	2	WHITE	17/298	
41622	CRA 250-20	2/0					
41623	CRA 250-30	3/0					
41624	CRA 250-40	4/0					
41635	CRA 300-2	#2					
41631	CRA 300-10	1/0					
41632	CRA 300-20	300	2/0	2	RED	18/324	
41633	CRA 300-30	3/0					
41634	CRA 300-40	4/0					
41636	CRA 350-20	2/0					
41637	CRA 350-40	350	4/0				
41638	CRA 350-250	250					
41639	CRA 350-300	300	2½	BROWN	20/299		
41656	CRA 500-6	#6					
41654	CRA 500-4	#4					
41655	CRA 500-2	#2					
41650	CRA 500-1	#1					
41651	CRA 500-10	1/0					
41652	CRA 500-20	2/0	2½	BROWN	20/299		
41653	CRA 500-30	3/0					
41670	CRA 500-40	4/0					
41671	CRA 500-250	500				250	
41672	CRA 500-300	300					
41673	CRA 500-350	350					
41674	CRA 500-400	400	2½	GREEN	22/472		
41665	CRA 600-500	600				500	
41675	CRA 750-500	750				500	
41676	CRA 750-600	600	2½	BLACK	24		
41607	CRA 1000-750	1000				750	3

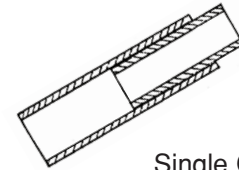
Other sizes available, consult factory.



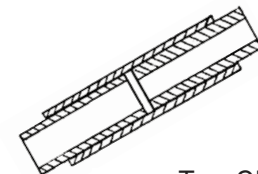
Copper wire only

Typical Applications

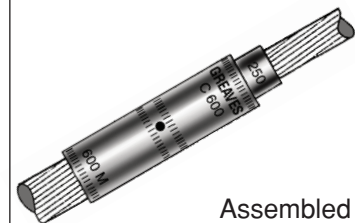
Also use in lugs, tees



Single CRA
in splice or lug



Two CRAs
if needed to
accommodate
wires



Assembled
User to provide wires



COMPRESSION

COMPRESSION REDUCER KITS – COPPER

Splice two sizes of Class B copper cable; installer to supply all cable

Join a new system to an existing system where oversized cable is used to reduce voltage drop on long runs

Reduce an oversized wire to fit a lug supplied on the equipment

CRK kit includes CRA adapter(s) to reduce the barrel to fit the cable sizes.

Each kit contains: Long barrel compression splice (C Series)

Adapter(s) for reduction/tip end (CRA Series)

Adapter(s) for cable/run end, if needed (CRA Series)

All components are high conductivity copper, tin-plated

Can be insulated with high heat-shrink tubing

CRK kits are designed for copper cable only. To splice an aluminum cable to a smaller copper cable, consult the factory for an ACK Kit (ASC-T splice with CRA insert), or use an AC-R Aluminum Reducing Splice or PT Adapter.



Copper wire only

CRK SERIES

NAED NUMBER	CATALOG NUMBER	REDUCES SIZE		KIT INCLUDES			U-TYPE DIE	
		FROM	TO	CRA	C	CRA	COLOR	INDEX
41729	CRK 2-6	#2	#6	-	C2	2-6	BROWN	10
41716	CRK 10-6	1/0	#6	-	C10	10-6	PINK	12/348
41714	CRK 10-4		#4			10-4		
41721	CRK 20-1	2/0	#1	-	C20	20-1	BLACK	13
41734	CRK 30-4	3/0	#4	-	C30	30-4	ORANGE	14
41732	CRK 30-2		#2			30-2		
41735	CRK 30-10		1/0			30-10		
41730	CRK 30-20		2/0			30-20		
41746	CRK 40-6	4/0	#6	-	C40	40-6	PURPLE	15
41745	CRK 40-2		#2			40-2		
41741	CRK 40-10		1/0			40-10		
41742	CRK 40-20		2/0			40-20		
41743	CRK 40-30		3/0			40-30		
41786	CRK 250-6	250	#6	-	C250	250-10 + 10-6	YELLOW	16
41785	CRK 250-2		#2			250-2		
41781	CRK 250-10		1/0			250-10		
41782	CRK 250-20		2/0			250-20		
41783	CRK 250-30		3/0			250-30		
41784	CRK 250-40		4/0			250-40		
41796	CRK 350-20	350	2/0	-	C350	350-20	RED	18/324
41797	CRK 350-40		4/0			350-40		
41749	CRK 400-250	400	250	500-400	C500	500-250	BROWN	20/299
41756	CRK 500-6	500	#6	-	C500	500-6	BROWN	20/299
41752	CRK 500-20		2/0			500-20		
41753	CRK 500-30		3/0			500-30		
41770	CRK 500-40		4/0			500-40		
41771	CRK 500-250		250			500-250		
41773	CRK 500-350		350			500-350		
41774	CRK 500-400		400			500-400		
41762	CRK 600-300	600	300	-	C600	600-500 + 500-300	GREEN	22/472
41763	CRK 600-350		350			600-500 + 500-350		
41764	CRK 600-400		400			600-500 + 500-400		
41765	CRK 600-500		500			600-500		
41775	CRK 750-500	750	500	-	C750	750-500	BLACK	24
41776	CRK 750-600		600			750-600		
41707	CRK 1000-750	1000	750	-	C1000	1000-750	WHITE	27

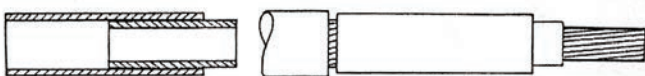
May be used for applications up to 35KV when proper installation and insulation procedures are employed.

Actual configuration may vary due to availability. Other kit combinations available, consult factory.

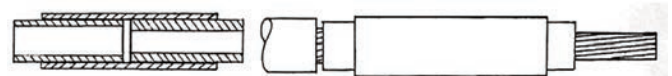
For aluminum main, ACK Series also available. Consult factory.

Example: CRK 500-350 configuration with single adapter

Example: CRK 400-250 configuration with two adapters to fit wires



Assembled, user provides wires



Assembled, user provides wires



Dual-Rated

600 V
90° C

COMPRESSION PIN TERMINAL ADAPTERS

Use to adapt oversized wire into lug
Rated for full ampacity of incoming conductor
Pre-filled with oxide-inhibitor, caps keep barrel clean
Supplied with insulating cover

Aluminum barrels marked with wire size and die color code
Install with die-type compression tools only
Do not use dieless tools

BI-METALLIC PIN ADAPTERS

Aluminum barrel with copper stranded pin, tin-plated
For termination of aluminum or copper conductors into lugs made for copper or aluminum wire

PT SERIES Concentric Copper Pin

NAED NUMBER	CATALOG NUMBER	BARREL		PIN		U-TYPE DIE		CTN QTY	EST. SHIPPING	
		WIRE	O.D.	STR CU	LENGTH	COLOR	INDEX		WEIGHT (lbs)	UNIT
51906	PT 6	#6		#8	7/8			25	1.8	CTN
51904	PT 4	#4	.66	#6	7/8	TAN	296	25	1.8	CTN
51902	PT 2	#2		#4	7/8			25	1.8	CTN
51900	PT 1	#1		#3	1			10	.9	CTN
51908	PT 10	1/0		#2	1 1/4				1.7	CTN
51910	PT 20	2/0		#1	1 1/4	RED	18/324	10	1.7	CTN
51912	PT 30	3/0	.91	1/0	1 3/8				1.8	CTN
51914	PT 40	4/0		2/0	1 3/8				1.9	CTN
51916	PT 250	250		3/0	1 1/2				3.0	CTN
51918	PT 300	300	1.16	4/0	1 5/8	BROWN	20/299	10	3.3	CTN
51920	PT 350	350		4/0	1 5/8				3.3	CTN
51922	PT 400	400		250	1 5/8				9.4	CTN
51924	PT 500	500	1.38	350	1 5/8	PINK	300	10	5.7	CTN
51926	PT 600	600		350	1 5/8				2.0	CTN
51928	PT 750	700-750	1.5	500	2	YELLOW	936	3	2.5	CTN



ALUMINUM PIN ADAPTERS

For termination of aluminum or copper conductors into aluminum lugs only
Solid aluminum barrel and pin

PTA SERIES Concentric Aluminum Pin

NAED NUMBER	CATALOG NUMBER	BARREL		PIN		U-TYPE DIE		CTN QTY	EST. SHIPPING	
		WIRE	O.D.	SOL ALUM	LENGTH	COLOR	INDEX		WEIGHT (lbs)	UNIT
51964	PTA 10	1/0		#2	27/32					CTN
51965	PTA 20	2/0	.86	#1	27/32	WHITE	17/298	10	1.1	CTN
51966	PTA 30	3/0		1/0	1 1/32					CTN
51967	PTA 40	4/0		2/0	1 1/32					CTN
51968	PTA 250	250		3/0	1 1/32					CTN
51969	PTA 300	300	1.11	4/0	1 1/32	BROWN	20/299	10	1.9	CTN
51970	PTA 350	350		250	1 1/32					CTN
51971	PTA 400	400		300	1 19/32					CTN
51972	PTA 500	500	1.33	350	1 19/32	PINK	300	10	3.5	CTN
51973	PTA 600	600		400	1 5/8					CTN
51974	PTA 750	700-750	1.47	500	1 3/4	YELLOW	936	3	1.3	CTN



PTO SERIES Offset Aluminum Pin

NAED NUMBER	CATALOG NUMBER	BARREL		PIN		U-TYPE DIE		CTN QTY	EST. SHIPPING	
		WIRE	O.D.	SOL ALUM	LENGTH	COLOR	INDEX		WEIGHT (lbs)	UNIT
51940	PTO 20	2/0		#1	27/32					CTN
51942	PTO 30	3/0	.86	1/0	1 1/32	WHITE	17/298	10	1.10	CTN
51944	PTO 40	4/0		2/0	1 1/32					CTN
51946	PTO 250	250		3/0	1 1/32					CTN
51948	PTO 300	300	1.11	4/0	1 1/32	BROWN	20/299	10	1.90	CTN
51950	PTO 350	350		250	1 1/32					CTN
51954	PTO 500	500	1.33	350	1 19/32	PINK	300	10	3.50	CTN
51956	PTO 600	600		400	1 5/8					CTN
51958	PTO 750	700-750	1.47	500	1 3/4	YELLOW	936	3	1.30	CTN



Offset pin allows rotation to accommodate close wire spacings.

www.greaves-usa.com

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